

CLAIMS

What is claimed is:

- 1 1. A method of associating meanings to utterances in a speech recognition system
2 comprising the following steps:
 - 3 a. generating a plurality of speech rules, each of said plurality of speech rules
4 comprising a language model and an expression associated with said
5 language model;
 - 6 b. upon the detection of speech in said speech recognition system, generating
7 a current language model from each said language model in said plurality
8 of speech rules for use by a recognizer;
 - 9 c. receiving a sequence of words from said recognizer, and determining a set
10 of said speech rules which match said sequence of words received from
11 said recognizer; and
 - 12 d. evaluating said expression associated with said language model in each
13 speech rule of said set of speech rules, and performing actions in said
14 system according to said expressions associated with each said language
15 model in said set of speech rules.
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1 2. The method of claim 1 wherein each said expression comprises an arithmetic
2 calculation for said variables in said speech recognition system.
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- 1 3. The method of claim 1 wherein each said language model in each of said plurality
2 of speech rules comprises recursive references to other language models.
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- 1 4. The method of claim 3 wherein each of said other language models comprise
2 expressions associated with each of said other language models.
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- 1 5. The method of claim 4 wherein said evaluation step comprises the steps of
2 evaluating each of said expressions for said other language models prior to
3 evaluating each said language model in each speech rule of said set of speech
4 rules.
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- 1 6. An apparatus for associating meanings to utterances in a speech recognition
2 system comprising the following steps:
3 a. means for generating a plurality of speech rules, each of said plurality of
4 speech rules comprising a language model and an expression associated
5 with said language model;
6 b. means for generating a current language model from each said language
7 model in said plurality of speech rules for use by a recognizer upon the
8 detection of speech in said speech recognition system;
9 c. means for receiving a sequence of words from said recognizer, and
10 determining a set of said speech rules which match said sequence of words
11 received from said recognizer; and
12 d. means for evaluating said expression associated with said language model
13 in each speech rule of said set of speech rules, and performing actions in
14 said system according to said expressions associated with each said
15 language model in said set of speech rules.